CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.02/KRIDL/CEMENT/2014-15

Date: 09.05.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Yelahanka Subdivision, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, BBMP, Bangalore.
NAME OF THE WORK	:	Construction of Samudaya Bhavana at SC/ST colony in Nagenahalli in Ward No.02 of Yelahanka Subdivision, Bangalore.
REFERENCE	:	BBMP/AEE/YSD/PR/444/2014-15 Dated: 06.05.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	186 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.50 %	-

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.02/KRIDL/SAND/2014-15 : 09.05.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yelahanka Subdivision, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, BBMP, Bangalore.

Name of Work : Construction of Samudaya Bhavana at SC/ST colony in Nagenahalli in Ward No.02 of Yelahanka Subdivision, Bangalore.

Reference : BBMP/AEE/YSD/PR/444/2014-15 Dated: 06.05.2014

Date of Testing : 09.05.2014

Material : Sand Total Wt. of Aggregates in gms **1600**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	90	5.63	5.63	94.4	90-100
2.36	138	8.63	14.25	85.8	75-100
1.18	423	26.44	40.69	59.3	55-90
600 Micron	330	20.63	61.31	38.7	35-59
300 Micron	295	18.44	79.75	20.3	8-30
150 Micron	220	13.75	93.50	6.5	0-10

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Job No.: CTCE/BBMP/W.No.02/KRIDL/AGG/2014-15 : 09.05.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yelahanka Subdivision, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, BBMP, Bangalore.

Name of Work : Construction of Samudaya Bhavana at SC/ST colony in Nagenahalli in Ward No.02 of Yelahanka Subdivision, Bangalore.

Reference : BBMP/AEE/YSD/PR/444/2014-15 Dated: 06.05.2014

Date of Testing : 09.05.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25300**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	950	3.75	3.75	96.25	95-100
20	12500	49.41	53.16	46.84	30-70
10	8950	35.38	88.54	11.46	10-35
4.75	2610	10.32	98.85	1.15	0-5

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Job No.: CTCE/BBMP/W.No.02/KRIDL/AGG/2014-15 : 09.05.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yelahanka Subdivision, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, BBMP, Bangalore.

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Reference : BBMP/AEE/YSD/PR/444/2014-15 Dated: 06.05.2014

Date of Testing : 09.05.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	178	3.6	3.6	96.4	95-100
10	3180	63.6	67.2	32.8	25-55
4.75	1541	30.8	98.0	2.0	0-10

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.02/KRIDL/STEEL/2014-15 19.05.2014

TEST REPORT ON REINFORCEMENT STEEL

Client : **Asst. Executive Engineer,** Yelahanka Subdivision, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, BBMP, Bangalore.

Name of the work : Construction of Samudaya Bhavana at SC/ST colony in Nagenahalli in Ward No.02 of Yelahanka Subdivision, Bangalore.

Reference : BBMP/AEE/YSD/PR/444/2014-15 Dated: 06.05.2014

Date of Test : 19.05.2014

Technical Reference : IS: 1786-2008

SL No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	512	555	13.05	O.K	O.K

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.02/KRIDL/STEEL/2014-15

19.05.2014

TEST REPORT ON REINFORCEMENT STEEL

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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	517	560	13.30	O.K	O.K

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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	521	565	13.50	O.K	O.K

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Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	16	1.58	529	573	13.65	O.K	O.K

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Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	20	2.47	536	581	13.80	O.K	O.K

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.02/KRIDL/CC Blocks/2014-15

05.06.2014

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** Yelahanka Subdivision, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, BBMP, Bangalore.

Name of the Work : Construction of Samudaya Bhavana at SC/ST colony in Nagenahalli in Ward No.02 of Yelahanka Subdivision, Bangalore

Reference : BBMP/AEE/YSD/PR/444/2014-15 Dated: 06.05.2014

Size of Block : 400 mm x 200 mm x 200 mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum required Compressive Strength
			kN	N/mm^2	N/mm^2
1	03.06.2014	05.06.2014	265.3	3.32	3.2
2	03.06.2014	05.06.2014	261.9	3.27	
3	03.06.2014	05.06.2014	263.8	3.30	

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CUBE/2014-15

14.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Yelahanka Subdivision, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, BBMP, Bangalore.

Name of the work : Construction of Samudaya Bhavana at SC/ST colony in Nagenahalli in Ward No.02 of Yelahanka Subdivision, Bangalore.

Reference : BBMP/AEE/YSD/PR/444/2014-15 Dated: 06.05.2014

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.07.2014	14.08.2014	8.219	486.5	21.62
2	17.07.2014	14.08.2014	8.375	502.7	22.34
3	17.07.2014	14.08.2014	8.420	519.5	23.09

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